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tent), SE (European patent).**Published***With international search report.**Before the expiration of the time limit for amending the
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10 December 1992 (10.12.92)

(54) Title: IMPROVED FLUOROCARBON CONTRAST MEDIA FOR USE WITH MRI AND RADIOGRAPHIC IMAG-
ING

(57) Abstract

The invention relates to a non-aqueous fluorocarbon composition for use in magnetic resonance imaging (MRI) or radiographic imaging (X-ray or computed tomography), particularly imaging of the gastrointestinal (GI) tract. The invention also relates to an improved fluorocarbon composition with enhanced contrast effects in the GI tract. This invention further discloses an improved fluorocarbon composition having improved palatability. The invention further provides improved preparations for radiographic imaging or MRI. Methods for producing and using such preparations are disclosed, as are methods for improving the palatability of non-aqueous liquids. Finally, methods for improving imaging are disclosed.

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 92/01922

I. CLASSIFICATION OF SUBJECT MATTER (if several classification symbols apply, indicate all) ⁶		
According to International Patent Classification (IPC) or to both National Classification and IPC Int.Cl.5 A 61 K 49/00 A 61 K 49/04 A 61 K 9/00		
II. FIELDS SEARCHED		
Minimum Documentation Searched ⁷		
Classification System	Classification Symbols	
Int.Cl.5	A 61 K	
Documentation Searched other than Minimum Documentation to the extent that such Documents are Included in the Fields Searched ⁸		
III. DOCUMENTS CONSIDERED TO BE RELEVANT⁹		
Category ¹⁰	Citation of Document, ¹¹ with indication, where appropriate, of the relevant passages ¹²	Relevant to Claim No. ¹³
X,A	File Server Derwent, File WPI, Abstract no. 76-58263X, & JP,A, 50027399 (MIYATA IND KK) 20 March 1975, see abstract ---	1-12
X,A	File Server Derwent, File WPI, Abstract no. 71-01668S, & US, A, 3553127 (ANSUL CO.) 5 January 1971, see abstract ---	1-12
A	WO,A,9014846 (ALLIANCE PHARM. CORP.) 13 December 1990, see the whole document ---	
A	EP,A,0118281 (CHILDREN'S HOSPITAL MEDICAL CENTER) 12 September 1984, see page 20, example; claims --- -/-	
<div><div>¹⁰ Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed</div><div>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family</div></div>		
IV. CERTIFICATION.		
Date of the Actual Completion of the International Search 29-07-1992	Date of Mailing of this International Search Report 09. 11. 92	
International Searching Authority EUROPEAN PATENT OFFICE	Signature of Authorized Officer <i>Dagmar Faus</i>	

III. DOCUMENTS CONSIDERED TO BE RELEVANT

(CONTINUED FROM THE SECOND SHEET)

Category °	Citation of Document, with indication, where appropriate, of the relevant passages	Relevant to Claim No.
A	WO,A,9001901 (ALLIANCE PHARMACEUTICAL CORP.) 8 March 1990, see the whole document ---	
A	EP,A,0401377 (OTSUKA PHARMACEUTICAL CO. LTD) 12 December 1990, see claims ---	
A	US,A,4074709 (KAPLAN) 21 February 1978, see the whole document (cited in the application) ---	
A	DE,A,2804234 (LINTON MEDICAL SERVICES LTD) 3 August 1978, see the whole document (cited in the application) -----	

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 92/01922

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
THE WORDING USED IN CLAIM 1 IS ITSELF AMBIGUOUS AND HAS BEEN INTERPRETED TO MEAN A COMPOSITION OF A FLUORCARBON LIQUID AND A GAS GENERATING (AND PALATABILITY ENHANCING) PHARMALOGICAL OR BIOACTIVE AGENT (SEE PCT ART.6).
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

FOR FURTHER INFORMATION PLEASE SEE FORM PCT/ISA/206 SENT TO YOU 26-08-92.

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

CLAIMS 1-26

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

**ANNEX TO THE INTERNATIONAL SEARCH REPORT
ON INTERNATIONAL PATENT APPLICATION NO.**

US 9201922
SA 58496

This annex lists the patent family members relating to the patent documents cited in the above-mentioned international search report. The members are as contained in the European Patent Office EDP file on 02/11/92. The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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